

# Product Information

## Silicone Antifoams

DOW CORNING

### *Dow Corning*<sup>®</sup> Antifoam FG-10

#### FEATURES

- Water dilutable
- Easy to use

#### BENEFITS

- Silicone emulsion

Food-grade antifoam emulsion prevents foam in food and industrial processes

#### APPLICATIONS

*Dow Corning*<sup>®</sup> Antifoam FG-10 is used in many applications in both the food and chemical industries. Typical uses include:

- Food fermentation processes
- High sugar-content systems
- Waste water treatment
- Vegetable processing
- Beverages

#### TYPICAL PROPERTIES

Specification Writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales office or your Global Dow Corning Connection before writing specifications on this product.

Test	Unit	Result
Appearance		Milky-white liquid
Active Ingredient	percent	10
Specific gravity, at 25°C (77° F)		1.0
Viscosity at 25°C (77° F)	cp	800
Consistency at 25°C (77° F)	cp	Medium
pH		4
Emulsifier Type		Nonionic
Suitable Diluent		Nonionic Cool water

#### DESCRIPTION

*Dow Corning*<sup>®</sup> Antifoam FG-10 is a 10 percent-active, food-grade silicone emulsion. This antifoam is water dilutable and effective in a variety of systems.

#### FDA STATUS

Dow Corning Antifoam FG-10 complies with FDA Regulation 21 CFR 173.340, which covers secondary direct food additives used as defoaming agents and allows concentrations of up to 10 parts per million active silicone (dimethylpolysiloxane) in nonstandardized foods.

This antifoam is also permissible as a component of paper that may come in contact with foods. See FDA Regulations 21 CFR 176.170 and 21 CFR 176.180.

#### USDA STATUS

This product is authorized by the USDA for use in federally inspected meat and poultry plants.

#### EPA STATUS

The ingredients in Dow Corning Antifoam FG-10 are listed in EPA Regulations, including 40 CFR 180.1001 for pesticide applications.

The ingredients are exempt from tolerances at 40 CFR 180.910, 40 CFR 180.920 and 40 CFR 180.960; refer to Form No. 26-135 1 for information on antifoams for agrochemicals.

## ①KOSHER ACCEPTANCE

This antifoam is certified for use in the processing of kosher foods.

## EUROPEAN COMMUNITY DIRECTIVES

- 95/2 Part 1/2 - Jam, jellies and marmalades as defined in Directive 79/693/EEC and similar fruit spreads, including low calorie products: maximum 10 mg/kg. Soups and broths: maximum 10 mg/kg. Oils and fats for frying: maximum 10 mg/kg. Confectionery (excluding chocolate): maximum 10 mg/kg. Non-alcoholic flavored drinks: maximum 10 mg/L. Pineapple juice maximum: 10 mg/L. Canned and bottled fruit and vegetables: maximum 10 mg/kg. Chewing gum: maximum 100 mg/kg.
- 95/2 Part 2/2 - (pro memoria) Wine in accordance with Regulation (EEC) No. 1873/84 authorizing the offer or disposal for direct human consumption of certain imported wines that may have undergone oenological processes not provided for in Regulation (EEC) No. 337/79. Sød...saft: maximum 10 mg/L. Batters: maximum 10 mg/kg. Cider (excluding cidre bouché): maximum 10 mg/L. Flavorings: maximum 10 mg/kg.

## GMO STATUS

Dow Corning Antifoam FG-1 0 does not contain genetically modified organisms. Dow Corning does not test for genetically modified organics.

## HOW TO USE

### Amount needed

Dow Corning Antifoam FG-10 is effective in very low concentrations. One to 10 parts of active silicone per million parts foamer are sufficient to control foaming in many systems. Begin trials at higher levels (10 ppm active silicone), then work down to the level of foam control desired. The following are parts per million equivalents:  
6.7 ounces in 500 gallons = 10 ppm  
13.3 ounces in 1,000 gallons = 10 ppm  
33.4 ounces in 2,500 gallons = 10 ppm  
10.0 quarts in 25,000 gallons = 10 ppm

### Adding the Antifoam

To produce optimal foam control, it is necessary to have the antifoam completely dispersed in the foaming medium. Follow these steps to achieve complete dispersion:

1. Agitate the product prior to use.
2. Predilute with 3 to 10 parts of cool water to aid in dispersion. Add the antifoam to the water with slow mixing. Prediluted material should be used immediately. If the system can provide adequate agitation to disperse the antifoam, the antifoam emulsion may be added directly without predilution being necessary.
3. Add the antifoam prior to the point where foaming occurs within the system, if possible.

*A preservative to guard against microbial growth is included in Dow Corning Antifoam FG-10. Dilution will substantially diminish the effectiveness of the preservative. If diluted material is to be stored for more than several days, additional preservative may be required. Contact Dow Corning for additional information.*

## HANDLING

### PRECAUTIONS

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND MATERIAL SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE MATERIAL SAFETY DATA SHEET IS AVAILABLE ON THE DOW CORNING WEBSITE AT WWW.DOWCORNING.COM, OR FROM YOUR DOW CORNING REPRESENTATIVE, DISTRIBUTOR, OR DOW CORNING CUSTOMER SERVICE, OR BY CALLING 1-800-FOAM FREE (1-800-362-6373).

### USABLE LIFE AND STORAGE

When stored between 20 and 40°C (68 and 104°F), Dow Corning Antifoam FG-1 0 has a shelf life of 36 months from date of manufacture. Refer to product packaging for "Use By" date.

This product will freeze at or below 0°C (32°F). If frozen, it can be thawed and used without loss of efficiency. Agitation may be required. Avoid storage conditions above 49°C (120°F).

### PACKAGING INFORMATION

Dow Corning Antifoam FG-10 is available in 20KG JER (441lbs), 200 KG- Drum (441lbs), and 1000KG Tote (2205).

### LIMITATIONS

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

## **HEALTH AND ENVIRONMENTAL INFORMATION**

To support Customers in their product safety needs, Dow Corning has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

For further information, please see our website, [www.dowcorning.com](http://www.dowcorning.com) or consult your local Dow Corning representative.

## **LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY**

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

Dow Corning's sole warranty is that our products will meet the sales specifications in effect at the time of shipment.

Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

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## **DOW CORNING DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.**

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